

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/08194

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01B13/00 H01B13/14 H01B13/26

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CH 682 778 A (BETA INSTR CO) 15 November 1993 (1993-11-15) column 1, line 62 -column 4, line 6; figure 1	1-17
A	US 5 926 949 A (GARNER MARK A ET AL) 27 July 1999 (1999-07-27) column 3, line 26 -column 12, line 28; figures 1-7	1-17
A	WO 98/52197 A (CAIMI LUIGI ;BALCONI LUCA (IT); BAREGGI ALBERTO (IT); BELLI SERGIO) 19 November 1998 (1998-11-19) claims 1-28; figures 1-5	18

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

4 June 2004

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Name and mailing address of the ISA

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
CH 682778	A	15-11-1993	CH 682778 A5 GB 2233123 A , B	15-11-1993 02-01-1991
US 5926949	A	27-07-1999	US 6137058 A AU 724140 B2 AU 3147997 A AU 3288997 A BR 9709414 A CA 2257123 A1 CN 1220025 A , B EP 0939960 A1 HK 1020386 A1 JP 2000512793 T KR 2000016178 A TW 434579 B TW 402724 B WO 9745843 A2 WO 9745844 A1 US 5959245 A	24-10-2000 14-09-2000 05-01-1998 05-01-1998 11-01-2000 04-12-1997 16-06-1999 08-09-1999 23-05-2003 26-09-2000 25-03-2000 16-05-2001 21-08-2000 04-12-1997 04-12-1997 28-09-1999
WO 9852197	A	19-11-1998	AP 1121 A AT 220240 T AU 743873 B2 AU 8015898 A BG 103792 A BR 9809119 A CA 2289748 A1 CN 1255229 T CZ 9903989 A3 DE 69806377 D1 DE 69806377 T2 DK 981821 T3 EA 1727 B1 EE 9900489 A EG 21959 A WO 9852197 A1 EP 0981821 A1 ES 2178223 T3 ID 24381 A JP 2002510424 T MA 24545 A1 NO 995535 A NZ 337909 A PL 336696 A1 PT 981821 T SI 981821 T1 SK 152099 A3 TR 9902729 T2 TW 405126 B US 2003066675 A1 US 6501027 B1 ZA 9804027 A HU 0002747 A2	29-11-2002 15-07-2002 07-02-2002 08-12-1998 31-07-2000 01-08-2000 19-11-1998 31-05-2000 14-06-2000 08-08-2002 23-01-2003 21-10-2002 27-08-2001 15-06-2000 30-04-2002 19-11-1998 01-03-2000 16-12-2002 13-07-2000 02-04-2002 31-12-1998 12-11-1999 26-10-2001 03-07-2000 29-11-2002 31-10-2002 14-08-2000 21-03-2000 11-09-2000 10-04-2003 31-12-2002 19-01-1999 28-12-2000